

Producing Olefinic and Fuel (Cont.)

SOV/3734

Gasification installations for producing olefinic gases (ethylene, propylene)

207

The Catarol process	208
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AVAILABLE: Library of Congress

Card 6/6

JA/gmp  
6-28-60

VISHNEYAKOVA, L.P.

PHASE I BOOK EXPDITION

Sov/941

Maznizovskoye sovetskoye po khimii nefti, Moscow, 1956.

Sbornik trudov Mezvuzovskogo sovetskogo po khimii nefti  
(Collection of Transactions of the Inter-University Con-  
ference on Petroleum Chemistry) (Moscow) Izd-vo Nauk.  
univ., 1956. 313 p. Arreata slip inserted. 1,600 copies  
printed.

Organizing Committee of the Conference: Chairman: B. A.

Kazanskiy, Academician; Vice-Chairman: S. I. Khrusov,

Doctor: G. M. Fanchenkov, Professor; A. V. Plate, Pro-  
fessor; Secretary: Ye. S. Bilenkova, Scientific Worker.

Editorial Board: Rep. Ed.: A. P. Plotin; I. V. Godun-

skaya, I. M. Nit-Sverdlova, L. A. Krikunskaya.

PURPOSE: This collection of articles is intended for the  
teaching staff of universities and schools of higher ed-  
ucation, training specialists for the petroleum and petro-  
leum-refining industries.

Card 1/7

CONTENTS: The collection includes articles dealing with the  
present state of the petroleum industry, the scientific  
research problems in petroleum chemistry, the chemistry  
of petroleum, the composition of petroleum and petroleum  
products, the scientific principles of refining petroleum  
into motor fuels and lubricants and the manufacture of  
synthetic products from hydrocarbon gases and petroleum.  
One article discusses the effect of chemical composition  
and additives on fuel combustion in jet engines. The en-  
tire material was presented at the Inter-University Conference  
on Petroleum Chemistry, held at the Moscow State University  
by Izdat. M. V. Lomonosov November 26-23, 1956. No per-  
sonalities are mentioned. References accompany most of the  
articles.

TABLE OF CONTENTS: None given

The authors and the titles of articles are as follows:

Introduction by B. A. Kazanskiy, Academician

Card 2/7

Collection of Transactions (Cont.)

SOV/4941

Kiselev, A. V., Laboratoriya adsorbsii Moskovskogo gosudarstvennogo universiteta (Adsorption Laboratory of the Moscow State University) and Laboratoriya sorbtionnykh protsessov Instituta fizicheskoy khimii AN SSSR (Laboratory of Sorption Processes, Institute of Physical Chemistry, AS USSR). Hydrocarbon Adsorption Energy 258

Paushkin, Ya. M., R. V. Sychev, T. P. Vishnyakova, and A. K. Zhomov, Moscow Petroleum Institute imeni I. M. Gubkin. Effect of Chemical Composition and Additives on Fuel Combustion in Jet Engines 293

AVAILABLE: Library of Congress (TP690.A1M445 1956)

Card 7/7

JA/wrc/ec  
4-20-61

S/152/60/000/009/003/004/XX  
B024/B076

AUTHORS: Zhomov A. K., Vishnyakova T. P., and Paushkin Ya. M.

TITLE: Kinetics of High-Temperature Pyrolysis of Crude Oil  
to Gas With a High Olefin Content

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz,  
1960, No. 9, pp. 103 - 107

TEXT: The authors consider the possibility of applying  
G.M. Panchenkov's theory on the kinetics of thermal cracking of  
petroleum hydrocarbons to the description of the pyrolysis of crude  
oil residues in the presence of steam. In cooperation with  
V. S. Tret'yakova (Ref. 3) G. M. Panchenkov obtained an equation  
from which the velocity constants of the first and second stages of  
a continuous first-order reaction in the cracking process can be  
determined: ✓

Card 1/3

Kinetics of High-Temperature Pyrolysis  
of Crude Oil to Gas With a High Olefin  
Content

S/152/60/000/009/003/004/xx  
B024/B076

$$n_0 \frac{dx}{dl} = \frac{k_1 (1-x)}{v_2 x + \frac{v_5}{v_2} \left[ v_3 x + \frac{v_3 (1-x)}{1-k} - v_3 \frac{(1-x)^k}{1-k} \right]} , \quad (2)$$

✓  
—

where  $x$  denotes the degree of conversion;  $l$  the distance from the beginning of the reaction zone;  $v_1, v_2, v_3, v_5$  are the stoichiometric coefficients;  $n_0$  is the number of gram-moles of the initial cracking residue;  $k, k_1$  are the reaction constants. By means of a graphic solution of this transformed equation the authors ascertained that the equation obtained for thermal cracking is also applicable to high-temperature pyrolysis. There are 4 figures and 5 Soviet references.

Card 2/3

Kinetics of High-Temperature Pyrolysis  
of Crude Oil to Gas With a High Olefin  
Content

S/152/60/000/009/003/004/XX  
B024/B076

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy  
promyshlennosti im. akad. I. M. Gubkina  
(Moscow Institute of the Petrochemical and Gas  
Industry imeni Academician I. M. Gubkin)

SUBMITTED: January 29, 1961

✓

Card 3/3

PAUSHKIN, Ya.M.; VISHNYAKOVA, T.P.; CHERNUKHINA, V.G.

Catalytic reforming of naphthenic hydrocarbons of gasoline fractions  
into aromatic hydrocarbons on a catalyst with 0.1-0. 3% of nickel.  
Izv. vys. ucheb. zav.; neft' i gaz 4 no.5:69-73 '61. (MIRA 15:2)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
imeni akad.I.M.Gubkina.  
(Hydrocarbons) (Cracking process) (Catalysts, Nickel)

53300

2109 only

23486  
8/152/61/000/005/001/002  
B126/B219AUTHORS: Paushkin, Ya. M., Vishnyakova, T. P., and Chernukhina, V. G.

TITLE: Catalytic reforming of naphthenic hydrocarbons to aromatic hydrocarbons from benzine fractions using a catalyst with 0.1 - 0.3% nickel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 5, 1961, 69 - 73

TEXT: For petrochemical synthesis the problem of aromatic hydrocarbons obtaining from crude oil is of current importance. The dehydrating effect of nickel catalysts has already been carefully examined by A. D. Zelinskiy and his school. Ciapetta (Ref. 2, Ciapetta F., Hanter I., Ind. Eng. Chem., 45, 147, 1953) showed that isomerization of normal pentane, hexane, heptane, and octane to isoparaffins is possible with a catalyst containing 5% of nickel on aluminum silicate and at 407°C, 25 atm pressure; (yield 55 - 65%). Kh. M. Minayev, N. I. Shuykin, L. M. Feofanova and Yu. P. Yegorov isomerized normal decane and hendecane with a catalyst containing 8% of nickel on aluminum oxide. The authors

Card 1/6

23486  
S/152/61/000/005/001/002  
B126/B219

Catalytic reforming of...

of the present paper experimented with nickel catalysts containing 0.1 - 0.3% of nickel on aluminum oxide. The catalyst was prepared from the active form of aluminum oxide, obtained by calcining ordinary aluminum oxide at 700°C, whereupon the  $\gamma$ -form  $Al_2O_3$  is achieved. The aluminum oxide obtained was soaked with a nickel nitrate solution of  $Ni(NO_3)_2 \cdot 6H_2O$  in such quantities as to obtain the necessary concentration of metallic nickel on  $Al_2O_3$  after evaporation. The best experimental results were obtained with catalysts containing 0.1 to 0.3% of nickel. They are given in Tables 3 and 4. A catalyst with 0.1 - 0.3% of Ni on  $Al_2O_3$  works without any noticeable decrease in activity for 10 - 12 hr at a volume rate of 0.2  $hr^{-1}$ , then the activity drops as a result of coking. Regeneration was effected by burning the coke at 400 - 500°C. In Table 5, a comparison between reforming by nickel and reforming by platinum is given. The experiments thus proved that a catalyst on a nickel basis only differs slightly in its activity from a catalyst on Pt-basis, but it is much cheaper. There are 5 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ciapetta F., Hanter I., Ind. Eng. Chem., 45, 147, 1953.

Card 2/6

Catalytic reforming of...

23486  
S/152/61/000/005/001/002  
B126/B219ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy  
promyshlennosti im. akad. I. M. Gubkina (Moscow Institute of  
Petrochemical and Gas Industry imeni Acad. I. M. Gubkin)

SUBMITTED: February 26, 1961

1) Показатели	2) Температура опыта, °C			3) 0,1% Ni на Al <sub>2</sub> O <sub>3</sub> при 550°
	450	500	550	
4) Плотность D <sub>4</sub> <sup>20</sup>	0,7360	0,751	0,768	0,782
5) Молекулярный вес	110,5	118	128	139
6) Броминное число	5,5	10,5	13	10,2
7) Групповой состав, % вес:				
7a) проматические углеводороды	6,1	13,3	21,5	31,1
7b) изоалкановые	—	36,7	30	20,2
7c) парафиновые	—	42,3	38	39,8
7d) непредельные	3,9	7,7	10,5	8,9
7e) Состав газа (% объемн.)				
7f) водород	58	73	66,7	70-80
7g) непредельные	3,3	7,5	8,8	—

Card 3/6

Table 3

S/065/61/000/012/003/005  
E075/E135

AUTHORS: Vishnyakova, T.P., Paushkin, Ya.M., Bondarenko, L.V.,  
and Smirnov, A.P.

TITLE: Influence of the chemical composition of hydrocarbon  
feedstock and aqueous vapours on the dynamics of  
formation of olefines during high temperature pyrolysis

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.12, 1961.  
11-14

TEXT: The aim of this work was to study dynamics of  
gasification of n-cetane,  $\alpha$ -methyldecalin and a middle kerosene  
fractions (b.pt.200-300  $^{\circ}$ C) leading to the formation of ethylene  
and propylene. The gasification process was carried out in a  
laboratory apparatus, a diagram of which is shown in Fig.1, where:  
1 - reactor; 2 - electric furnace; 3 - flow meters; 4 - receiver  
for condensate; 5 - water pump; 6 - feedstock pump; 7 - burettes;  
8 - receiver for condensate; 9 - condenser; 10 - water washer;  
11 - oil washer; 12 - gas meter; 13 - beater for feedstock;  
14 - heater for steam; 15 - sprayer. The feedstock was preheated  
to 300  $^{\circ}$ C, sprayed into the reactor with steam preheated to

Card 1/43

Influence of the chemical ....

S/065/61/000/012/003/005  
E075/E135

450-500 °C (feedstock-steam ratio 1:1). The mixture was heated in the reactor to 800 °C, the temperature being controlled electrically. The total material balance and the balance for each section of the reactor are obtained as a function of the place of gas take-off. The time of contact of feedstock in the reaction zone was determined to obtain the speed of gasification of the different types of hydrocarbons along the length of the reactor. For the n-cetane fraction the formation of olefines passes through a maximum and reaches about 40% of the total gas for the reaction times of 0.5 to 0.6 sec. Subsequently the concentration of olefines begins to fall rapidly and for 1.5 - 2.0 sec reaction times it is as low as 5-7%. The extent of gasification after 2 sec reaches 90% of the feedstock but at the time of maximum olefine yield, only 50% of the feedstock is gasified. Gasification of  $\alpha$ -methyldecalin fraction gives less olefines and a maximum yield of 24% is reached for the reaction time of 0.6 sec. The kerosene fraction, which consisted mainly of naphthenes and paraffins, gave a maximum yield of 27% after 0.3-0.5 sec. The composition of gases formed during the pyrolysis is different for each hydrocarbon fraction investigated.

Card 2143

Influence of the chemical ....

S/065/61/000/012/003/005;  
E075/E135

There are 4 figures and 1 table.

ASSOCIATION: MINKh and GP imeni I.M. Gubkin

Card 3/43

VISHNYAKOVA, T.P.; PAUSHKIN, Ya.M.; BONDARENKO, L.V.; SMIRNOV, A.P.

Effect of the chemical composition of hydrocarbon raw charge  
and water vapor on the dynamics of olefin formation at high  
temperature pyrolysis. Khim.i tekhnopl.i masel 6 no.12:11-  
14 D '61. (MIRA 15:1)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
im. akad. Gubkina.  
(Hydrocarbons) (Olefins)

PAUSHKIN, YA.M., POLAK, L.S., VISHNYAKOVA, T.P., PATALAKH, I.I.,  
MACHUS, F.F., SOKOLINSKAYA, T.A.

New ferrus-containing polymers on the basis of ferrocene and their electrophysical properties.

Report submitted for the International Symposium of Macromolecular chemistry  
Paris, 1-6 July 63

~~compound, knock inhibitor, monomer, mangnane~~

~~ABSTRACT: The production of cyclopentadiene and its homologs is of great importance~~

"APPROVED FOR RELEASE: 09/01/2001

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merization and high security communication

Page 1/3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

ACCESSION NR: AT4008695

41R was the only indicator the presence of 2 unpaired electrons. The electro-

PAUSHKIN, Ya.M.; VISHNYAKOVA, T.P.; SMIRNOV, A.P.; ANAN'YEV, P.G.;  
NEPRYAKHINA, A.V.

Recent developments in the cracking of hydrocarbons; cracking  
with heat given off and cracking cut off at high temperatures.  
Trudy MINKHGP no.44:118-128 '63. (MIRA 18:5)

L 16996-63  
RM/WW/JD/JW/MAY

EWP(j)/EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD PC-4/PR-4

S/204/63/003/002/006/006 77  
76

AUTHOR: Paushkin, Ya. M., Mashkovskaya, T. P., Sokolinskaya, T. A., Zimina,  
K. I., and Kotova, G. G.

TITLE: Alkylation of Ferrocene by olefins in the presence of the com-  
pounds boron fluoride and aluminum chloride

PERIODICAL: Neftekhimiya, v. 3, no. 2, 1963, 280-284

TEXT: The number of olefins used for alkylation of ferrocene was ex-  
panded, and such catalysts as the strong complex acid  $H_3PO_4 \cdot BF_3$  and  $BF_3 \cdot O(C_2H_5)_2$ , in addition to  $AlCl_3$ , were used, which allowed the concept on the  
mechanisms of ferrocene alkylation to be widened and new previously unknown  
alkylferrocenes to be synthesized. A considerable increase in yields of mono-  
alkyl derivatives of ferrocene is reported. The mono- and di-isooctylferro-  
cenes were obtained by the direct alkylation of ferrocene by olefins. There  
are 3 tables and 1 figure. The most important English-language references read  
as follows: T. I. Kealy, P. L. Pavson, Nature, 168, 1039, 1951; G. Wilkinson,  
F. A. Gotton, J. M. Birmingham, J. Inorg. and Nucl. Chem., 295, 1956.

ASSOCIATION: Moscow Institute of Petrochemical and Gas Industry imeni I.M. Gubkin.  
Card 1/2,

PAUSHKIN, Ya.M.; VISHNIKOVA, T.P.; PATALAKH, I.I.; SOKOLINSKAYA, T.A.;  
MACHUS, F.F.

Ferrocene-based synthesis of polymers and some of their electro-  
physical properties. Dokl. AN SSSR 149 no.4:856-859 Ap '63.  
(MIRA 16:3)

1. Institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M.  
Gubkina. Predstavleno akademikom A.V.Topchiyevym.  
(Polymers) (Ferrocene)

VISHNYAKOVA, T.P.; PAUSHKIN, Ya.M.; KLIMENKO, M.Ya.; MAR'YASHKIN, N.Ya.

Oxidation of  $\eta$ -butylenes to methyl ethyl ketone in the presence of  
a palladium chloride catalyst. Izv.vys.ucheb.zav.; khim.i khim.tekh.  
7 no.6:989-992 '64. (MIRA 18:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
imeni Gubkina, kafedra neftekhimicheskogo sinteza.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

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Two figures, 1 table and 2 formulas.

Figure 1: A scatter plot showing the relationship between two variables. The x-axis is labeled 'X' and the y-axis is labeled 'Y'. The data points show a positive correlation.

Figure 2: A line graph showing the relationship between two variables. The x-axis is labeled 'X' and the y-axis is labeled 'Y'. The data points show a negative correlation.

Table 1: A table showing the relationship between two variables. The x-axis is labeled 'X' and the y-axis is labeled 'Y'.

Formula 1: A mathematical formula for calculating the slope of a line.

Formula 2: A mathematical formula for calculating the y-intercept of a line.

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CIA-RDP86-00513R001860110008-6

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

ACCESSION NR: AP4043278

ASSOCIATION: MINKh and GP

SUBMITTED: 00

ENCL: 00

SUB CODE: GC, TD

Card 2/2

TITLE: Preparation of polycarbonylic compounds by the reaction of calcium carbide with aromatic carboxylic acids

ACCESSION NR: AP4045016

conjugated polymers. The carbonyl compounds—acetone, acetophenone, acetaldehyde, and acetylacetone—reacted with cyclohexene in molar ratios of 1:0.5 to 1:10:100. The polymers produced were soluble in benzene, acetone, and chloroform.

and 2 3

was synthesized for the first time. Most of the alkaloids were new, and some of them were found to be active against *Leishmania*.

THE BOSTONIAN SOCIETY, BOSTON, MASS., PUBLISHED BY D. H. SPURGEON, BOSTON, MASS.

<sup>10</sup> See, for example, the discussion of the 'right to be forgotten' in the European Union's General Data Protection Regulation (GDPR), Article 17(1).

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860110008-6"

ACCESSION NR: AP4030375

S/0190/64/006/003/0545/0550

AUTHOR: Paushkin, Ya. M.; Polak, L. S.; Vishnyakova, T. P.;  
Patalakh, I. I.; Machus, F. F.; Sokolinskaya, T. A.

TITLE: New iron-containing ferrocene-based polymers and their  
electrophysical properties.

SOURCE: Vy\*skomolekulyarny\*ye soyedineniya, v. 6, no. 3, 1964, 545-  
550

TOPIC TAGS: organic semiconductor, semiconducting polymer, ferrocene  
polymer, ferrocene polymer preparation, electrical property

ABSTRACT: Fourteen new polymers based on ferrocene and a number  
of aromatic compounds have been prepared by polyrecombination or  
polycondensation, and their electrical properties have been studied  
at the Moscow Institute of the Petrochemical and Gas Industry imeni  
Gubkin. The polyrecombination of ferrocene and  $\alpha$ -bromonaphthalene,  
 $p$ -dichlorobenzene, benzonitrile, salicylic acid, salicylaldehyde, or  
benzaldehyde, and of isobutyl-, isopentyl-, or isooctylferrocene alone

Card 1/3

ACCESSION NR: AP4030375

was carried out at 175-200°C in the presence of tert-butyl peroxide at various starting material-to-peroxide molar ratios. Yields of 3-39% for soluble (dark-brown) and 23-77% for insoluble (black) solid polymers were obtained. The polycondensation of ferrocene with acetone in the presence of  $ZnCl_2$  and hydrogen chloride at 56°C formed soluble polymers; that of acetyl- or 1,1'-diacetylferrocene alone in the presence of  $ZnCl_2$  at 200°C and 180°C respectively yielded both soluble and insoluble polymers. All the polymers but alkylferrocene-polyrecombination products gave a one-component signal in the EPR spectrum; x-ray structural analysis showed them to be amorphous, and IR spectroscopy, to be conjugated polymers. Electrical conductivity was studied at 20-300°C and  $1 \times 10^{-4}$  or 760 mm Hg after degassing at  $1 \times 10^{-4}$  mm Hg and 50°C for 3 hr. All the polymers showed a positive temperature coefficient and an exponential temperature dependence of conductivity. Electrical conductivity at 50°C ranged from  $1 \times 10^{-12}$  to  $1 \times 10^{-9}$   $\text{ohm}^{-1} \cdot \text{cm}^{-1}$ , and activation energy, from 0.3 to 1.74 ev (no degassing). Study of the effect of surface adsorption on the semiconducting properties of the 1,1'-diacetylferrocene polymer showed that the high activation energies (1.5 ev) are

Card 2/3

ACCESSION NR: AP4030375

caused mostly by surface adsorption and only to a small degree by  $\pi$ -electron excitation from the valence to the conduction band.  
Orig. art. has 4 tables, 2 figures, and 3 formulas.

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy  
promyshlennosti im. Gubkina (Moscow Institute of the Petrochemical  
and Gas Industry)

SUBMITTED: 02Apr63 DATE ACQ: 07May64 ENCL: 00

SUB CODE: CH,PH NO REF Sov: 011 OTHER: 002

Card 3/3

1. The effect of the electronic structure of the monomer on the properties of the polymer and the crosslinking

2. The effect of the electronic structure of the monomer on the properties of the polymer and the crosslinking

3. The effect of the electronic structure of the monomer on the properties of the polymer and the crosslinking

4. The effect of the electronic structure of the monomer on the properties of the polymer and the crosslinking

5. The effect of the electronic structure of the monomer on the properties of the polymer and the crosslinking

SOURCE: AN 588R Doklady Akad. Nauk SSSR 1964 101: 834

ABSTRACT: The electronic structure of the monomer and the polymers and the crosslinking  
process of the monomer was studied. It is shown that the crosslinking is increasing the dependence of the  
resistance of the polymer to the action of the electron beam. The crosslinking of the polymer is  
considered as the result of the formation of the crosslinked structures in the polymer and

Card 1/3

U 22296-64  
ACCESSION NO. A1

indicating the high molecular of fat-solvent to effect on the polymeric structure. Insoluble

L 2329C-65

ACCESSION NR: AP5000915

where  $a_1$  refers to linear and  $a_2$  to cross linked fractions of the polymer. Orig. art. has  
been checked and found to be correct.

ASSOCIATION FOR POLYMER RESEARCH, BUREAU OF POLYMER PHYSICS, SSSR, Chemical physics Institute, Kosygin Str. 4, Moscow 117334, USSR. (Institute of Physics of the Solid State, Academy of Sciences of the USSR, Moscow, USSR).

See: R. V. Kabanov et al.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6

In the temperature range 20-200°

Card 1/2

ACCESSION NR: APS-11754

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6

SUB CODE: CC, MT

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N.....P.....

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110008-6"

PAUSHKIN, Ya.M.; VISENYAKOVA, T.P.; KURAGRETA, I.I.

Preparation of acetyl-cyclopentadienyltricarbonylmanganese. (MIRA 18-10)  
Zhur. ob. khim. 35 no.9:1682-1684 S '65.

A L 11824-66 EWT(m)/EXP(j)/T/ETC(m) NW/RM

ACC NR: AP6001493

SOURCE CODE: UR/0191/65/000/012/0010/0012

AUTHOR: Golubeva, I. A.; Vishnyakova, T. P.

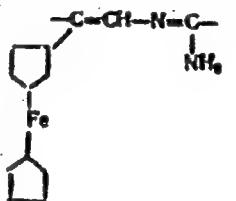
ORG: none

TITLE: Heteropolycondensation of acetylferrocene with urea

SOURCE: Plasticheskiye massy, no. 12, 1965, 10-12

TOPIC TAGS: semiconducting polymer, polycondensation, urea, conjugated polymer, thermal stability, temperature dependence, electric conductivity, organic nitrogen compound, ferrocene

ABSTRACT: A new ferrocene- and nitrogen-containing conjugated polymer.



has been prepared by heteropolycondensation of acetylferrocene with urea. It is noted that the introduction of ferrocene nuclei into conjugated systems with hetero atoms in the backbone improves thermal stability and produces specific magnetic and electrical properties. The reaction was carried out in a metal autoclave in

Card 1/2

UDC: 678.86:66.095.3

L 11824-66

ACC NR: AP6001493

the absence of atmospheric oxygen and in the presence of  $ZnCl_2$  catalyst at 110 to 190°C. The polymers were dark infusible powders; the benzene-soluble fraction decomposes at about 350°C and has a mol wt of about 1000. The temperature dependence of electrical conductivity measured in vacuum in the 20-300°C range for degassed samples was exponential in character. Conductivity [at room temperature] was  $4.7 \times 10^{-7}$  mho/cm. Orig. art. has: 1 table and 2 figures. [SM]

SUB CODE: 07, 20 / SUBM DATE: none / ORIG REF: 008 / OTH REF: 002 / ATD PRESS: 4478

HW

Card 2/2

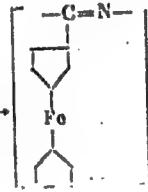
L 14204-66 EWP(j)/EWT(m)/T RM

ACC NR: AP6003429

SOURCE CODE: UR/0190/66/008/001/0181/0185

AUTHOR: Vishnyakova, T. P.; Golubeva, I. A.; Paushkin, Ya. M.ORG: Moscow Institute of the Petrochemical and Gas Industry im. I. M. Gubkin  
(Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)TITLE: Synthesis of ferrocene- and nitrogen-containing polymers with a conjugated bond systemSOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 181-185TOPIC TAGS: organic semiconductor, semiconducting polymer, polynitrile

ABSTRACT: New ferrocene- and nitrogen-containing polymers—polyferrocenylnitriles—have been prepared by polycondensation of amides or ammonium salts of ferrocenecarboxylic acids. The reaction was conducted in an autoclave in the absence of atmospheric oxygen and in the presence of  $ZnCl_2$  catalyst. Polyferrocenylnitrile was prepared at 170—200°C from ferrocenecarboxamide, ammonium ferrocenecarboxylate, as well as from ferrocene proper:



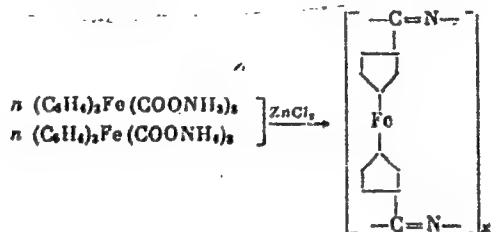
UDC: 541.64+678.86

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L 14204-66

ACC NR: AP6003429

In the case of ferrocenecarboxamide,  $P_2O_5$  and  $TlCl_4$  catalysts were used in addition to  $ZnCl_2$ . The simplest and most effective method was the second (yield, 87% on the ferrocene). Polyferrocenyldinitrile was also prepared at 200°C from 1, 1'-ferrocenedicarboxamide and from diammonium 1, 1'-ferrocenedicarboxylate;



The best method was the second (yield, 44.5% on the ferrocene). All the polymers were black to brown powders; their physical and electrical properties are shown in Table 1. Structures were confirmed by IR spectroscopy. The temperature dependence

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ACC NR: AP6003429

Table 1. Properties of ferrocenylnitriles

	M. p., °C		Mol. wt	N, spin/g	$\sigma_{50}^{50}$ cmho/cm	$\Delta E$ , ev
	DMF* soluble	DMF insoluble				
Polyferrocenyl-nitrile	350—400	>500	1200—1600	$10^{17}$ — $10^{19}$	$10^{-11}$ — $10^{-8}$	0.724— 0.09
Polyferrocenyl-dinitrile	None	>500	—	$10^{18}$	$10^{-12}$ — $10^{-14}$	0.93— 1.28

\*Dimethylformamide

of conductivity of the polymers was exponential in character. Orig. art. has:  
4 tables and 1 figure.

[SM]

SUB CODE: 07/ SUBM DATE: 10Mar65/ ORIG REF: 007/ OTH REF: 002/ ATD PRESS:  
4193

Card 3/3 10

SVADZHIAN, P.K.; VISHNYAKOVA, V.N.; MARDZHANYAN, K.S.

Copeognatha of the Armenian S.S.R. and methods of their laboratory maintenance. Izv. AN Arm. SSR. Biol. nauki 16 no.9:89-94  
(MIRA 17:7)  
S\*63

1. Zoologicheskij institut AN Armyanskoy SSR.

VISHNYAKOVA, V.N.

Characteristics of the venation of the anterior wings of a  
new Late Jurassic cockroach. Paleont. zhur. no. 1:82-87 '64.  
(MIRA 17:7)

1. Paleontologicheskiy institut AN SSSR.

VISHNYAKOVA, V.N.

Fauna and ecology of psocids (Psocoptera) in Moscow and Ryazan Provinces [with summary in English]. Ent. oboz. 38 no.2:435-442 '59. (MIRA 12:?)

1. Zoologicheskiy institut AN SSSR, Leningrad.  
(Moscow Province--Psocids)  
(Ryazan Province--Psocids)

AYZENBERG, Ye.Ye.; BEKKER-MIGDISOVA, Ye.E.; VISHNYAKOVA, V.N.;  
DANILEVSKIY, A.S.; MARTYNOVA, O.M.; NOVOZHILOVYY, N.I.;  
PONOMARENKO, A.G.; POPOV, Yu.A.; RODENDORF, B.B.; CHERNOVA,  
O.A.; SHAROVYY, A.G.; ORLOV, Yu.A., glav. red.; MARMOVSKIY,  
B.P., zam. glav. red.; RUZHENTSEV, V.Ye., zam. glav. red.;  
SOKOLOV, B.S., zam. glav. red.; OSIROVA, L.S., red. izd-va;  
MAKUNI, Ye.V., tekhn. red.

[Fundamentals of paleontology; reference book in 15 volumes  
for paleontologists and geologists of the U.S.S.R.] Osnovy  
paleontologii; spravochnik dlia paleontologov i geologov  
SSSR v piatnadtsati tomakh. Glav. red. I.U.A.Orlov. Moskva,  
Izd-vo Akad. nauk SSSR. Vol.9. [Arthropoda: Tracheata,  
Chelicerata] Chlenistonogie: trakheinye i khelitserovye. Otv.  
red. toma B.B.Rodendorf. 1962. 559 p. (MIRA 16:3)  
(Arthropoda, Fossil)

VISHNYAKOVA, V.N.

Neurulation of the front wing of Upper Jurassic cockroache *Mesoblattina*  
*vitimica* Visch., sp.nov. Biul.MOIP.Otd.geol.38 no.2:160 Mr.Ap '63.  
(MIRA 16:5)

(Cockroaches, Fossil)

VISHNYAKOVA, V.N.

New species of genus Kunguroblattina from the Lower Permian  
in the Ural Mountain region. Paleont. zhur. no.4:50-59 '65.  
(MIRA 19:1)

1. Paleontologicheskiy institut AN SSSR. Submitted Feb. 27,  
1964.

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"Problems of the epidemiology of Batkin's disease in Leningrad."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists  
and Infectionists, 1959.

POLEZHAYEV, Ivan Antonovich, kand. sel'khoz. nauk; VISHNYAKOVA, Ye.,  
red.

[Growing sugar beet for forage in the non-Chernozem zone]  
Kul'tura sakharinoi svekly na korm v nechernozemnoi zone.  
Moskva, Mosk. rabochii, 1964. 154 p. (MIRA 17:12)

1. Zaveduyushchiy otdelom sakharinoi svekly i kormovykh  
korneplodov Vsesoyuznogo nauchno-issledovatel'skogo inati-  
tuta kormov (for Polezhayev).

YELAGIN, Vladimir Dmitriyevich; VISHNYAKOVA, Ye., red.; POKHLEBKINA, M.,  
tekhn. red.

[Peas] Gorokh. Moskva, Moskovskii rabochii, 1963. 79 p.  
(MIRA 16:7)

(Peas)

ALEKSEYEVA, M.V., doktor sel'khoz. nauk, prof, retsenzent; KROTOVA, O.A., kand. sel'khoz. nauk, retsenzent; SHEV'YEV, Ye.I., agro-nom, retsenzent; LEZHANSKINA, Z.S., kand. sel'khoz. nauk, red.; VISHNYAKOVA, Ye., red.; GAYEVSKIY, A., red.; POKHLEBKINA, M., tekhn. red.

[Cooperation of science and production; experience in joint work of the vegetable growers on the M.Gorkii State Farm and the scientists of the Research Institute of Vegetable Gardening] Sodruzhestvo nauki i proizvodstva; opyt sovmestnoi raboty obo-shchevodov sovkhosa im. M.Gor'kogo i uchenykh Nauchno-issledovatel'skogo instituta ovoshchnogo khoziaistva. Moskva, Mosk. rabochii, 1963. 133 p.  
(Vegetable gardening)

(MIRA 16:6)

BARANTSEVA, Klavdiya Petrovna, zasl. mekhanizator RSFSR; VISHNYAKOVA, Ye.,  
red.; POKHLEBKINA, M., tekhn.red.

[I like my occupation] Liubliu svoiu professiu. Moskva, Mosk.  
rabochii, 1963. 34 p. (MIRA 16:8)

1. Kolkhoz "Zavet Il'icha" Moskovskaya oblast' (for Barantseva).  
(Farm mechanization)

PETERBURGSKIY, Aleksandr Vasil'yevich, doktor sel'khoz. nauk, prof.;  
POSTNIKOV, Anatoliy Vasil'yevich, agrokhimik; YISHNYAKOVAYE.,  
red.; KUZNETSOVA, A., tekhn. red.

[New effective fertilizers] Novye effektivnye udobreniia.  
Moskva, Mosk. rabochii, 1963. 55 p. (MIRA 16:7)  
(Fertilizers and manures)

FEDYAYEV, Vasiliy Mikhaylovich; VISHNYAKOVA, Ye., red.

[Mushrooms the wonder of nature] Griby - chudo prirody.  
Moskva, Mosk. rabochii, 1964. 142 p. (MIRA 17:9)

LEZHANKINA, Z.S., kand. sel'khoz. nauk; VISHNYAKOVA, Ye., red.

[Conveyor production of vegetables] Konveier zelenyykh  
kul'tur. Moskva, Mosk. rabochii, 1964. 70 p.  
(MIRA 17:10)

SOROKIN, S.S.; NAYDIN, P.G., prof., red.; VISHNYAKOVA, Ye., red.;  
USTINOVA, S., tekhn. red.

[Soil fertility is in our hands] Plodorodie zemel' - v  
nashikh rukakh. Moskva, Mosk. rabochii, 1964. 167 p.  
(MIRA 17:2)

OSTROVOY, Georgiy Varfolomeyevich, agronom; VISHNYAKOVA, Ye.,  
red.; POKHLEBKINA, M., tekhn. red.

[Forage beans] Kormovye boby. Moskva, Mosk. rabochii,  
1964. 37 p. (MIRA 17:3)  
1. Brigadir kompleksnoy brigady kolkhoza "Put' novoy zhizni"  
Moskovskoy oblasti (for Ostrovoy).

POLEZHAYEV, Ivan Antonovich; VISHNYAKOVA, Ye., red.; USPINOVA, S.,  
tekhn. red.

[Sugar beets for forage] Sakharnaya svekla na korm. Mo-  
skva, Mosk. rabochii, 1963. 95 p. (MIRA 17:1)

KONDRAT'YEV, Aleksey Ivanovich; VISHNYAKOVA, Ye., red.; YAKOVLEVA, Ye.,  
tekhn. red.

[The new, tested by life] Novoe, proverennoe zhizn'iu. Mo-  
skva, Moskovskii rabochii, 1963. 61 p. (MIRA 16:10)

1. Predsedatel' kolkhoza im. kreysera "Avrora" Volokolamskogo  
sovkhозno-kolkhoznogo proizvodstvennogo upravleniya Moskov-  
skoy oblasti (for Kondrat'yev).  
(Moscow Province—Stock and stock breeding)

BOYEV, Ivan Dmitriyevich; VISHNYAKOVA, Ya.A., red.; YELAGIN, A.S.,  
tekhn.red.

[Seven-year plan in four years] Semiletka v chetyre goda.  
Moskva, Izd-vo "Sovetskaja Rossiia," 1960. 83 p. (MIRA 14:2)

1. Direktor sovkhoza "Temishbekskiy" Stavropol'skogo kraja  
(for Boyev). (State farms)

SHARSHAVENKOV, Vasiliy Ivanovich, svinar'-mekhanizator; VISHNYAKOVA, Ye.A.,  
red.; KLYUCHEVA, T.D., tekhn.red.

[One centner of pork per hour] TSentner svininy za chas.  
Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 62 p. (MIRA 15:5)  
1. Sovkhoz "Chkalovskiy" Kalizhskoy oblasti (for Sharshavenkov).  
(Swine)

GONCHARENKO, Vsevolod Antonovich; VISHNYAKOVA, Ye.A., red.; POPOV, N.D.,  
tekhn. red.

[First steps into the future] Pervye shagi v budushchee. Moskva, Izd-  
vo "Sovetskaia Rossiia," 1961. 110 p. (MIRA 14:7)

1. Direktor sovkhoza "Gazyrskiy" Krasnodarskogo kraya (for Goncharenko)  
(Krasnodar Territory—Farm management)

DIANOV, Mikhail Ivanovich, Geroy Sotsialisticheskogo Truda; VISHNYA-  
KOVA, Ye.A., red.; YMLAGIN, A.S., tekhn. red.

[We'll fulfill the tasks of the seven-year plan ahead of time]  
Zadanie semiletki vypolnim dosrochno. Moskva, Izd-vo "Sovet-  
skaya Rossiya," 1960. 27 p. (MIRA 14:5)

1. Predsedatel' kolkhoza "Rossiya" Spasskogo rayona Ryazan-  
skoy oblasti (for Dianov)  
(Ryazan Province--Collective farms)

SELEZNEV, Fedor Yakovlevich; VASIL'YEV, V.N., red.; VISHNYAKOVA, Ye.A.,  
red.; KUZNETSOVA, G.I., tekhn. red.

[Agricultural planning] Planirovanie sel'skokhozisistvennogo  
proizvodstva. Moskva, Izd-vo "Sovetskaja Rossiia," 1960.  
36 p. (Dlia sluchatelei sel'skikh nachal'nykh shkol i kruzh-  
kov. Tema 2) (MIRA 14:5)

(Agriculture)

ANISIMOV, Nikolay Il'ich; VISHNYAKOVA, Ye.A., red.; KLYUCHEVA, T.D.,  
tekhn. red.

[Learn how to be a manager] Uchis' khoziaistvovat'. Moskva,  
Izd-vo "Sovetskaja Rossiia," 1960. 37 p. (Dlia slushatelei  
sel'skikh nachal'nykh ekonomicheskikh shkol i krushkov.  
Tema 1) (MIRA 14:5)  
(Farm management)

SMIRNOV, A.A.; VISHNYAKOVA, Ye.A., red.; MATVEYEV, A.P., tekhn.red.

[Siberian virgin land] Sibirskaia tselina. Moscow, Izd-vo  
"Sovetskaya Rossiia," 1959. 186 p. (MIRA 13:6)  
(Siberia)

ZENIN, Vasiliy Polikarpovich; VISHNYAKOVA, Ye.A., red.; MARAKASOVA,  
L.P., tekhn.red.

[Great work of concern to all] Bol'shoe vserodnoe delo.  
Moskva, Izd-vo "Sovetskais Rossiiia," 1960. 50 p. (MIRA 13:6)

1. Sekretar' Ryazanskogo obkoma Kommunisticheskoy partii Sovetskogo  
Soyuza (for Zenin).  
(Ryazan Province--Agriculture)

PLATONOV, Grigorij Fedorovich; VISHNYAKOVA, Ye.A., red.; YELAGIN,  
A.S., tekhn.red.

[Over-all mechanization is the foundation of success] Kompleksnaja  
mekhanizatsija - osnova uspekha. Moskva, Izd-vo "Sovetskaja Rossiia,"  
1960. 75 p. (MIRA 13:6)

1. Direktor plemenogo sovkhoza "Proletarij" Vladimirskoy oblasti  
(for Platonov).  
(Stock and stockbreeding)

VISHNYAKOVA, Ye.G. (Moskva, K, Krivokolennyy per., d. 8 kv. 18); VISHNYAKOVA,  
V.Y. (Moskva, V-261, Leninskiy prosp. d. 81, kv.87); MURAV'YEVA, N.I.  
(Moskva, D-67, Volokolamskoye shosse, d. 80, kv.71); ASSENOVA, N.K.  
(Moskva, I-41, prcsp. Mira, d. 48, kv.22)

Treatment of mastopathy with microdoses of potassium iodide. Vop.  
onk. 10 no.10:88-93 '64. (MIRA 18:8)

1. Iz endokrinologicheskogo otdeleniya (zav. - kand.med.nauk O.V.  
Svyatukhina) i laboratorii biokhimii (zav. - prof. V.S.Shapot)  
Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR  
(direktor - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin).

VISHNYAKOVA, Ye. G. (Moskva, TSentr, Krivokolenny per., 8, kv. 18)

Surgical treatment of skin cancer originating on scars. Vop.  
onk. 6 no.12:60-64 '60. (MIRA 15:7)

1. Iz klinicheskogo otdeleniya (zav. - dotsent V. I. Yanishevskiy)  
Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR  
(dir. - deystvitel'nyy chlen AMN SSSR prof. N. N. Blokhin).

(SKIN—CANCER)

VISHNYAKOVA, Ye. L.

Vishnyakova, Ye. L. - "Preliminary data on tuberculin therapy in tuberculosis of the bone joint," Trudy Ob"edin nauch. soveta pri Upr. Yevpator. kurorta, Ncl. VII, 1948, p. 83-91

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

VISHNYAKOVA, Ye.S., inzh.; RUMYANTSEVA, N.F., inzh.; BORONICHEV, G.A.,  
inzh.; PITINOVA, L.V., inzh.; PETRUNIN, N.I., inzh.; MESKIN,  
I.M., inzh.; ANDREYEVA, L.P., inzh.; BISHENKEVICH, G.V., inzh.;  
RYABININA, A.I., inzh.; MOSHNIN, N.S., red. gazety; KOMKOV,  
A.I., otv. red.; YUNITSKIY, V.P., red.; FLIGEL'MAN, S.M., red.;  
ROZHDAYKINA, V., tekhn. red.

[Kalinin Artificial Fiber Combine] Kalininskii kombinat iskus-  
tvennogo volokna. Kalinin, Kalininskoe knizhnoe izd-vo, 1960.  
(MIRA 15:8)  
92 p.

1. Kalininskii kombinat iskusstvennogo volokna (for all except  
Komkov, Yunitskiy, Fligel'man, Rozhdaykina).  
(Kalinin--Textile fibers, Synthetic)

RIZINA, T.N. (Chairman of the Scientific Council); S. SHENYANOVA, Yu.N.  
(Chairman)

Problem of the etiology of embolic disease and its  
Inst. infek. bol. no.4223-727 16L  
(MIRA 18:6)

USSR/Microbiology. Microbes Pathogenic for Man and Animals F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57776

Author : Rozina Ts. S., Pedenko A. I., Devanisskaya R. D.,  
Vishnyakova Yu. N.

Inst : Kharkov Scientific-Research Institute of Vac-  
cines and Sera

Title : Bacteriological Characteristics of Diphtheria  
in Kharkov in the Years of 1951 to 1954

Orig Pub : Tr. Kharkovsk. n.-i in-ta vaktsin i syvorotok,  
1957, 24, 91-98

Abstract : No abstract

Card 1/1

83

1. VISHNYARKOVA, Ye.

2. USSR (600)

4. Family

7. Drive bad grass out of the field! Rabotnitsa 31 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

ALEKSANDROV, I.A.; VISHNYAKOVA, Ye.A., red.; YUSFINA, N.L., tekhn. red.

[This will be done in 1958; an account of the state plan for the development of the economy of the Russian Federation] Itto budet sdelano v 1958 godu; rasskaz o Gosudarstvennom plane razvitiia narodnogo khoziaistva Rossiiskoi Federatsii, Moskva, Izd-vo "Sovetskaya Rossiia," 1958. 29 p. (MIRA 11:10)  
(Russia--Economic policy)

BENEDIKTOV, Ivan Alekseevich; VISHNYAKOVA, Ye.A., red.; KUZNATSOVA,  
G.I., tekhn.red.

[Agriculture of the Russian Federation in the seven-year plan]  
Sel'skoe khoziaistvo Rossiiskoi Federatsii v semiletke. Moskva,  
Izd-vo "Sovetskaya Rossiia," 1959. 94 p. (MIRA 13:1)  
(Agriculture)

ZLOBIN, Anatoliy Pavlovich; VISHNYAKOVA, Ye.A., red.; MATVEYEV, A.P.,  
tekhn.red.

[The meridian of Baikal] Baikal'skii meridian. Moskva, Izd-vo  
"Sovetskaya Rossiia," 1959. 190 p. (MIRA 13:4)  
(Siberia--Description and travel)

LYSENKO, Trofim Denisovich, akademik, agrobiolog; VISHNYAKOVA, Ye.A.,  
red.; AVDEYEVA, V.A., tehn.red.

[Socialistic agriculture] O kul'ture sotsialisticheskogo  
zemledeliia. Moskva, Izd-vo "Sovetskaia Rossiia," 1961.  
(MIRA 14:12)  
34 p.

1. Direktor Instituta genetiki AN SSSR (for Lysenko).  
(Agriculture)

MITROKHIN, Mikhail Alekseyevich; VISHNYAKOVA, Ye.A., red.; KLYUCHEVA,  
T.D., tekhn.red.

[Discussions on economic aspects of agriculture on state farms]  
Besedy ob ekonomike sovkhoznogo proizvodstva. Moskva, Izd-vo  
"Sovetskaya Rossiia," 1959. 236 p. (MIRA 13:2)  
(State farms)

TRAPEZNIKOV, N.N., kand.med.nauk; VISHNYAKOVA, Ye.G., kand.med.nauk

Second Coordinated Conference on Chemical Therapy in Treating Tumors.  
Vop.onk. 5 no.5:637-640 '59. (MIRA 12:12)  
(TUMORS) (CHEMOTHERAPY)

VISHNYAKOVA, Ye. G. (Moskva, Tsentr, Krivokolennyy per., d. No. 8, kv. 18)

First results of dopamine therapy in chronic myeloid leukemia and of certain malignant tumors. Vop. onk. 4 no. 5:569-572 '58. (MIRA 12:1)

1. Iz klinicheskogo otdela Instituta eksperimental'noy patologii i terapii raka AMN SSSR (dir. - chl.-korr. AMN SSSR prof. N.N. Blokhin).

(NITROGEN MUSTARDS, ther. use,  
5-( $\beta$ -chloroethyl)amino-4-cathyl-uracil in myelocytic leukemia & other forms of cancer (Rus))

(URACIL, rel. cpds.  
same)

(LEUKEMIA, MYLOCYTIC, ther.  
5-( $\beta$ -chloroethyl)amino-4-methyl-uracil (Rus))

VISHNYAKOVA, Ye. G.

VISHNYAKOVA, Ye. G. - "Results of Combined Treatment of Cancer of the Tongue." Sub 3 Jun 52, Central Inst for the Advanced Training of Physicians. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechnaya Moskva January-December 1952

VISHNYAKOVA, Z.V.

Microflora of mountain soils of the cedar-fir forest's and their  
clearcut areas. Izv. SO AN SSSR no.12: Ser. biol.-nat. nauk  
no.3:57-61 '64. (MIRA 18:6)

1. Institut lesa i drevestny Sibirs'kogo otdeleniya AN SSSR,  
Krasnoyarsk.

VISHNYASKAYTE, A. I.

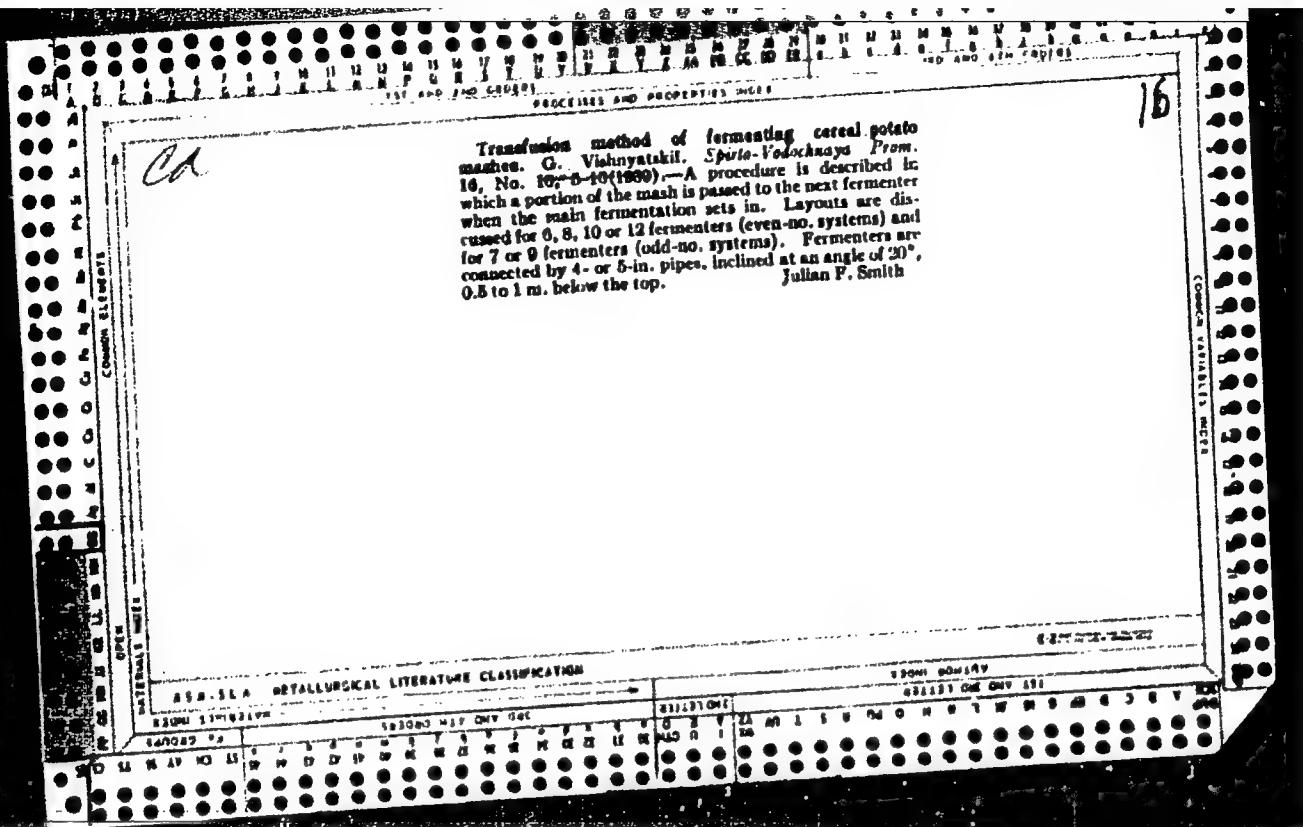
"Razvitie litovskoy krest'yanskoy sem'i."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

DEMIDOV, N.V., doktor veter. nauk; RABYANSKAS, M.A. (Rabynskas, M.), kand. veter. nauk; VISHNYAVSKAS, A.V. (Vishnyavskas, A.), starshiy nauchnyy sofruchin

Testing hexachlorophane in fascioliasis of sheep. Veterinariia (MIRA 18:10)  
42 no.10:45-47 9/85.

1. Vsesoyuznyy institut gel'vitologii imeni akademika Skryabina (for Demidov). 2. Titovskiy nauchno-issledovatel'skiy veterinarnyy institut (for Rabyanskas, Vishnyavskas).



VISHNYEVSKY, M.

"In one of the leading organizations of the Dosaaf."

So. Radio, Vol. 5, p. 25, 1952

OSZTROVSZKY, Gyorgy; Schiller, Janos; PALFI, Laszlo, okleveles villamosmernok; BOZSIK, Ferenc; GYORI, Attila, okleveles villamosmernok, foenergetikus; VARGA, Endre, okleveles gepeszmernok; TURAN, Gyorgy, okleveles gepeszmernok; SZENDY, Karoly, dr., fokonstruktor; KOVACS, Ferenc, okleveles villamosmernok; CSILY, Jeno, fodiszpecser; BEREZNAY, Frigyes, fomer-nok; PALOS, Ferenc, okleveles mernok; FILARSZKY, Zoltan, okleveles gepeszmernok; NEMETH, Imre, okleveles villamosmernok, fomernok; AL-PAR, Imre, okleveles gepeszmernok, foenergetikus; GATI, Geza, okleveles villamosmernok; BEKE, Gyula, okleveles gepeszmernok; VISNYOV-SZKY, Endre, foelando; VERKITS, Gyorgy, okleveles villamosmernok, fomernok; FUTO, Istvan, okleveles gepeszmernok; NAGY, Karoly; PIKLER, Ferenc; SZEPESSY, Sandor, okleveles gepeszmernok; NADAY, Zoltan, okleveles gepeszmernok, fotechnologus; BUCHHOLCZ, Janos, okleveles gepeszmernok, fomernok

An account of the 11th itinerant meeting of the Hungarian Electro-technical Association held in Pecs, July 18-20, 1963. Energia es atom 16 no.12:559 D '63.

(Continued on next card)

11036

VISHOM, Ya. K.

USSR/Agricultural Machinery 4302.0500 Aug 1947

"Slats for Reaper Conveyors," Ya. K. Vishom, 1 p

"MIS" No 8

Short discussion of the benefits of wooden slats made  
of layers instead of a single block of wood.

LC

11036

VISHOMIRSKIS, R.M. [Visomirskis, R.]; SHIVITSKIS, Yu.P. [Sivickis, J.]

Nature of the cathodic polarization of cadmium in a cyanide  
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Cathodic polarization of copper in cyanin electrolyte. Liet ak  
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VISHOMIRSKIS, R.M.

"Über das wesen der kathodischen polarisarion bei der elektrolytischen  
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PURPOSE: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences and the Institute of Physical Chemistry, Academy of Sciences, USSR. The collection pertains to different branches of electrochemical kinetics, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

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